

Chemical Analysis Report

CEN-DIST-2022-07-21-03

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **LAKE Hiawatha - LVI**
Request ID: **RQ-2022-07-18-30**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Certified by: Colin Wright, Program Administrator

Date Certified: 12-AUG-2022 10:18



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Lake Hiawatha @ Center

Collection Date/Time: 07/20/2022 11:00

Field ID: G1CE0069

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2343199	DEP SOP: NU-094-1	Color (true)	82		PCU	P417014	
	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P417011	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P417383	
		Sulfate	2.7		mg SO4/L	P417386	
	SM 2320 B-2011	Total Alkalinity	5.3		mg CaCO3/L	P417354	
	SM 2540 C-2011	TDS	68		mg/L	P417490	
	SM 2540 D-2011	TSS	2	I	mg/L	P417478	
	SM 4500-F- C-2011	Fluoride	0.085	I	mg F/L	P417356	
2343200	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P417262	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.94		mg N/L	P417236	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P417305	
	EPA 365.1 Rev. 2.0	Total-P	0.021		mg P/L	P417140	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P417223	
2343201	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P417002	
2343203	EPA 8321B	2,4-D	0.012		ug/L	P417136	
		Acesulfame K	0.10	U	ug/L	P416993	
		2,4,5-T	0.0040	U	ug/L	P417136	
		AMPA	0.10	U	ug/L	P416993	
		Acetaminophen	0.0080	U	ug/L	P417136	
		Acetamiprid	0.0020	U	ug/L	P417136	
		Endothall	0.25	U	ug/L	P416993	
		Glufosinate	0.10	U	ug/L	P416993	MS
		Glyphosate	0.10	U	ug/L	P416993	
		Afidopyropen	0.0020	U	ug/L	P417136	
		Bentazon	0.0031	I	ug/L	P417136	
		Sucralose	0.10		ug/L	P416993	
		Benzovindiflupyr	0.0020	U	ug/L	P417136	
		Carbamazepine	8.0E-04	U	ug/L	P417136	
		Clothianidin	0.0020	U	ug/L	P417136	
		Dinotefuran	0.0020	U	ug/L	P417136	
		Diuron	0.0020	U	ug/L	P417136	
		Fenuron	0.032	U	ug/L	P417136	
		Fluridone	8.0E-04	U	ug/L	P417136	
		Imazapyr	0.012	I	ug/L	P417136	
		Hydrocodone	0.0020	U	ug/L	P417136	
		Ibuprofen	0.080	U	ug/L	P417136	
		Imidacloprid	0.0020	U	ug/L	P417136	
		Linuron	0.0040	U	ug/L	P417136	
		Mandestrobin	0.0020	U	ug/L	P417136	
		MCP	0.0040	U	ug/L	P417136	
		Naproxen	0.0080	U	ug/L	P417136	
		Primidone	0.0040	U	ug/L	P417136	
		Pyraclostrobin	0.0020	U	ug/L	P417136	

Field ID: G1CE0069

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2343203	EPA 8321B	Silvex	0.0040	U	ug/L	P417136	MS
		Thiamethoxam	0.0020	U	ug/L	P417136	
		Tolfenpyrad	0.0020	U	ug/L	P417136	
		Triclopyr	0.0040	U	ug/L	P417136	
2343204	EPA 200.7 Rev. 4.4	Calcium	5.09		mg/L	P417017	
		Iron	240		ug/L	P417017	
		Magnesium	1.85		mg/L	P417017	
		Potassium	1.0	I	mg/L	P417017	
		Sodium	7.9		mg/L	P417017	
		Strontium	20.0		ug/L	P417017	
		Tin	3.0	U	ug/L	P417017	
		Titanium	0.82	I	ug/L	P417017	
		Vanadium	2.0	U	ug/L	P417017	
		Zinc	22		ug/L	P417017	
	EPA 200.8 Rev. 5.4	Aluminum	95		ug/L	P417017	
		Antimony	0.085	I	ug/L	P417017	
		Arsenic	1.04		ug/L	P417017	
		Barium	8.44		ug/L	P417017	
		Beryllium	0.013	I	ug/L	P417017	
		Boron	36.1		ug/L	P417017	
		Cadmium	0.020	U	ug/L	P417017	
		Chromium	0.40	U	ug/L	P417017	
		Cobalt	0.072	I	ug/L	P417017	
		Copper	1.33		ug/L	P417017	
		Lead	0.39	I	ug/L	P417017	
		Manganese	9.15		ug/L	P417017	
		Molybdenum	0.15	U	ug/L	P417017	
		Nickel	0.50	U	ug/L	P417017	
		Selenium	0.20	U	ug/L	P417017	
		Silver	0.010	U	ug/L	P417017	
		Thallium	0.10	U	ug/L	P417017	
	SM 2340 B-2011	Hardness	20.4		mg/L	P417017	
2343205	EPA 8270E	Oxybenzone**	11	I	ng/L	P417056	RPD
		Acetochlor	0.25	UQ	ng/L	P417604	
		Octinoxate**	19	U	ng/L	P417056	
		Alachlor	0.25	UQ	ng/L	P417604	
		Avobenzone**	97	U	ng/L	P417056	
		Ametryn	0.59	UQ	ng/L	P417604	
		Atrazine	9.1	Q	ng/L	P417604	
		PBDE-47**	3.9	U	ng/L	P417056	
		Atrazine Desethyl	1.5	UQ	ng/L	P417604	
		PBDE-99**	4.8	U	ng/L	P417056	
		Azinphos Methyl	2.0	UQ	ng/L	P417604	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P417056	
		Azoxystrobin	0.61	IQ	ng/L	P417604	

Field ID: G1CE0069

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2343205	EPA 8270E	Bromacil	0.49	UQ	ng/L	P417604	LCS
		2-Ethylhexyl	12	U	ng/L	P417056	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.39	UQ	ng/L	P417604	
		Caffeine**	39	Q	ng/L	P417604	
		Carbophenothion	0.20	UQ	ng/L	P417604	
		Carfentrazone Ethyl	0.098	UQ	ng/L	P417604	
		Chlorfenapyr	0.17	UQ	ng/L	P417604	
		Chlorpyrifos Ethyl	0.25	UQ	ng/L	P417604	
		Chlorpyrifos Methyl	0.049	UQ	ng/L	P417604	
		Coumaphos	0.49	UQ	ng/L	P417604	
		Cyanazine	3.2	UQ	ng/L	P417604	
		Cyprodinil	0.098	UQ	ng/L	P417604	
		Demeton	1.5	UQ	ng/L	P417604	
		Diazinon	0.12	UQ	ng/L	P417604	
		Difenoconazole	0.59	UQ	ng/L	P417604	
		Dimethenamid	0.15	IQ	ng/L	P417604	
		Dimethomorph	0.17	UQ	ng/L	P417604	
		Disulfoton	0.49	UQ	ng/L	P417604	
		Dithiopyr	0.22	IQ	ng/L	P417604	
		EPTC	1.2	UQ	ng/L	P417604	
		Ethion	0.15	UQJ	ng/L	P417604	
		Ethoprop	0.098	UQ	ng/L	P417604	
		Etridiazole	0.15	UQ	ng/L	P417604	
		Fenamiphos	0.49	UQ	ng/L	P417604	
		Fenbuconazole	0.12	UQ	ng/L	P417604	
		Fipronil	0.25	UQ	ng/L	P417604	
		Fipronil Desulfinyl**	0.21	IQ	ng/L	P417604	
		Fipronil Sulfide	0.15	UQ	ng/L	P417604	
		Fipronil Sulfone	0.15	UQ	ng/L	P417604	
		Fluazifop-P-butyl	0.098	UQ	ng/L	P417604	
		Fludioxonil	0.12	UQ	ng/L	P417604	
		Flumioxazin	1.7	UQ	ng/L	P417604	
		Flutolanil	0.098	UQ	ng/L	P417604	
		Fluxapyroxad	0.098	UQ	ng/L	P417604	
		Fonofos	0.20	UQ	ng/L	P417604	
		Hexazinone	0.49	UQ	ng/L	P417604	
		Imazalil	0.74	UQ	ng/L	P417604	
		Iprodione	0.59	UQ	ng/L	P417604	
		Loratadine**	0.098	UQ	ng/L	P417604	MS
		Malathion	2.2	Q	ng/L	P417604	
		Metaxyl	0.74	UQ	ng/L	P417604	
		Metolachlor	0.38	IQ	ng/L	P417604	
		Metribuzin	2.5	UQ	ng/L	P417604	
		Mevinphos	1.0	UQ	ng/L	P417604	

Field ID: G1CE0069

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2343205	EPA 8270E	Molinate	0.29	UQ	ng/L	P417604	
		Myclobutanil	0.25	UQ	ng/L	P417604	
		Naled	1.5	UQ	ng/L	P417604	
		Napropamide	0.39	UQ	ng/L	P417604	
		Norflurazon	0.49	UQ	ng/L	P417604	
		Oxadiazon	1.2	Q	ng/L	P417604	
		Oxyfluorfen	0.15	UQ	ng/L	P417604	
		Parathion Ethyl	0.25	UQ	ng/L	P417604	
		Parathion Methyl	0.54	UQ	ng/L	P417604	
		Pendimethalin	0.98	UQ	ng/L	P417604	
		Phenytol**	3.4	UQ	ng/L	P417604	MS
		Phorate	0.52	UQ	ng/L	P417604	
		Prodiamine	0.17	UQ	ng/L	P417604	
		Prometon	0.88	UQ	ng/L	P417604	
		Prometryn	0.20	UQ	ng/L	P417604	
		Pronamide	0.15	UQ	ng/L	P417604	
		Propanil	0.12	UQ	ng/L	P417604	
		Propargite	1.5	UQJ	ng/L	P417604	LCS
		Propiconazole	1.2	IQ	ng/L	P417604	
		Pyraflufen Ethyl	0.25	UQ	ng/L	P417604	
		Pyridaben	0.44	UQ	ng/L	P417604	
		Pyriproxyfen	0.12	UQ	ng/L	P417604	
		Simazine	0.85	IQ	ng/L	P417604	
		Stirophos	0.12	UQ	ng/L	P417604	
		Sulfentrazone	0.49	UQ	ng/L	P417604	
		Tebuconazole	0.85	IQ	ng/L	P417604	
		Terbufos	0.098	UQ	ng/L	P417604	
		Terbutylazine	0.42	UQ	ng/L	P417604	
		Thiobencarb	0.59	UQ	ng/L	P417604	
		Triadimefon	0.25	UQ	ng/L	P417604	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8321B: MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample. MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: Sample expired for preparation due to need for re-extraction. MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P417014

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417011

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417017

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417017

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417383

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417386

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417262

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417236

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417305

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417140

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P417002

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P417056

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Avobenzene	100	U	ng/L
Avobenzene	100	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417604

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417604

Component	Result	Code	Units
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417604

Component	Result	Code	Units
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417604

Component	Result	Code	Units
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8321B

Batch ID: P416993

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P417136

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P417354

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P417354

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P417490

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P417478

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417356

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P417223

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P417014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417011

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.4		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417017

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	103		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	102		P	85 - 115
Sodium	102		P	85 - 115
Strontium	106		P	85 - 115
Tin	102		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	99.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417017

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.8		P	85 - 115
Antimony	95.9		P	85 - 115
Arsenic	96.3		P	85 - 115
Barium	99.2		P	85 - 115
Beryllium	91.5		P	85 - 115
Boron	104		P	85 - 115
Cadmium	94.8		P	85 - 115
Chromium	94.7		P	85 - 115
Cobalt	97.3		P	85 - 115
Copper	96.3		P	85 - 115
Lead	98.8		P	85 - 115
Manganese	95.2		P	85 - 115
Molybdenum	94.8		P	85 - 115
Nickel	97.5		P	85 - 115
Selenium	94.1		P	85 - 115
Silver	100		P	85 - 115
Thallium	97.7		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417383

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.7		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417386

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417262

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417236

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417305

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417140

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	103		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P417002

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	101		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P417056

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.8		P	50 - 150
Avobenzone	90.2		P	76 - 212
Octinoxate	86.8		P	30 - 159
Oxybenzone	80.2		P	61 - 139
PBDE-47	91.4		P	50 - 150
PBDE-99	84.5		P	50 - 150
Tri-o-cresyl Phosphate	86.0		P	50 - 150

Reference Method: EPA 8270E
Batch ID: P417604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	107		P	70 - 121
Alachlor	103		P	68 - 119
Ametryn	133		P	64 - 139
Atrazine	110		P	76 - 120

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P417604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine Desethyl	87.2		P	44 - 126
Azinphos Methyl	103		P	43 - 192
Azoxystrobin	146		P	36 - 224
Bromacil	82.1		P	52 - 121
Butylate	48.6		P	28 - 91.0
Caffeine	83.7		P	50 - 134
Carbophenothion	70.0		P	56 - 129
Carfentrazone Ethyl	105		P	60 - 141
Chlorfenapyr	66.8		P	56 - 115
Chlorpyrifos Ethyl	113		P	60 - 118
Chlorpyrifos Methyl	89.9		P	68 - 119
Coumaphos	45.4		P	18 - 250
Cyanazine	92.9		P	61 - 250
Cyprodinil	126		P	55 - 145
Demeton	115		P	30 - 159
Diazinon	110		P	70 - 123
Difenoconazole	118		P	49 - 204
Dimethenamid	75.9		P	64 - 115
Dimethomorph	113		P	12 - 219
Disulfoton	104		P	44 - 125
Dithiopyr	104		P	64 - 115
EPTC	58.0		P	28 - 86.0
Ethion	19.3		F	33 - 125
Ethoprop	112		P	64 - 116
Etridiazole	69.3		P	34 - 91.0
Fenamiphos	71.8		P	12 - 127
Fenbuconazole	78.6		P	59 - 151
Fipronil	98.9		P	67 - 129
Fipronil Desulfinyl	102		P	65 - 127
Fipronil Sulfide	93.8		P	61 - 116
Fipronil Sulfone	89.7		P	55 - 117
Fluazifop-P-butyl	104		P	62 - 127
Fludioxonil	65.1		P	62 - 128
Flumioxazin	60.6		P	33 - 250
Flutolanil	85.4		P	56 - 127
Fluxapyroxad	50.7		P	45 - 128
Fonofos	106		P	62 - 111
Hexazinone	87.7		P	46 - 139
Imazalil	70.8		P	38 - 142
Iprodione	71.5		P	47 - 135
Loratadine	218		P	10 - 244
Malathion	104		P	61 - 139
Metalaxyl	102		P	10 - 119
Metolachlor	88.0		P	65 - 118
Metribuzin	112		P	51 - 250
Mevinphos	94.2		P	53 - 121
Molinate	67.0		P	42 - 96.0
Myclobutanil	88.1		P	55 - 128
Naled	65.7		P	10 - 98.0
Napropamide	52.4		P	49 - 121
Norflurazon	80.7		P	61 - 126
Oxadiazon	90.6		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P417604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxyfluorfen	96.8		P	64 - 137
Parathion Ethyl	104		P	70 - 112
Parathion Methyl	133		P	76 - 133
Pendimethalin	103		P	52 - 117
Phenytoin	15.2		P	10 - 199
Phorate	104		P	48 - 121
Prodiamine	50.3		P	26 - 142
Prometon	80.9		P	43 - 123
Prometryn	112		P	66 - 127
Pronamide	115		P	75 - 121
Propanil	93.0		P	45 - 150
Propargite	35.4		F	42 - 208
Propiconazole	81.8		P	60 - 125
Pyraflufen Ethyl	75.1		P	70 - 138
Pyridaben	79.8		P	35 - 245
Pyriproxyfen	33.6		P	30 - 149
Simazine	95.4		P	72 - 125
Stirophos	29.2		P	29 - 164
Sulfentrazone	84.1		P	21 - 139
Tebuconazole	20.0		P	10 - 115
Terbufos	114		P	60 - 123
Terbutylazine	107		P	72 - 115
Thiobencarb	81.2		P	31 - 139
Triadimefon	82.8		P	65 - 116

Reference Method: EPA 8321B

Batch ID: P416993

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	71.7		P	40 - 150
AMPA	108		P	40 - 150
Endothall	92.1		P	40 - 150
Glufosinate	120		P	40 - 150
Glyphosate	102		P	40 - 150
Sucralose	93.7		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417136

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	86.2		P	40 - 150
2,4,5-T	76.7		P	40 - 150
Acetaminophen	90.2		P	30 - 150
Acetamiprid	73.6		P	40 - 150
Afidopyropen	73.4		P	30 - 150
Bentazon	96.3		P	30 - 150
Benzovindiflupyr	88.8		P	40 - 150
Carbamazepine	89.2		P	40 - 150
Clothianidin	96.2		P	40 - 150
Dinotefuran	98.7		P	40 - 150
Diuron	72.1		P	40 - 150
Fenuron	101		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P417136

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluridone	92.3		P	40 - 150
Hydrocodone	91.4		P	40 - 150
Ibuprofen	113		P	40 - 150
Imazapyr	74.7		P	40 - 150
Imidacloprid	102		P	40 - 150
Linuron	91.1		P	40 - 150
Mandestrobin	83.8		P	40 - 150
MCPP	97.4		P	40 - 150
Naproxen	99.7		P	40 - 150
Primidone	90.3		P	40 - 150
Pyraclostrobin	76.2		P	40 - 150
Silvex	55.4		P	40 - 150
Thiamethoxam	95.0		P	40 - 150
Tolfenpyrad	41.8		P	30 - 150
Triclopyr	72.7		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P417354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P417356

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	104		P	96 - 104

Reference Method: SM 5310 B-2011

Batch ID: P417223

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P417017

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343204	Calcium	103		P	80 - 120
2343204	Iron	104	102	P/P	80 - 120
2343204	Magnesium	104	99.9	P/P	80 - 120
2343204	Potassium	104	102	P/P	80 - 120
2343204	Sodium	102		P	80 - 120
2343204	Strontium	108	106	P/P	80 - 120
2343204	Tin	103	100	P/P	80 - 120
2343204	Titanium	104	101	P/P	80 - 120
2343204	Vanadium	104	100	P/P	80 - 120
2343204	Zinc	104	99.6	P/P	80 - 120
2343291	Calcium	108		P	80 - 120
2343291	Iron	110		P	80 - 120
2343291	Magnesium	108		P	80 - 120
2343291	Potassium	105		P	80 - 120
2343291	Sodium	108		P	80 - 120
2343291	Strontium	110		P	80 - 120
2343291	Tin	106		P	80 - 120
2343291	Titanium	107		P	80 - 120
2343291	Vanadium	107		P	80 - 120
2343291	Zinc	106		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P417017

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343204	Aluminum	97.2	99.6	P/P	80 - 120
2343204	Antimony	95.4	97.3	P/P	80 - 120
2343204	Arsenic	95.5	97.7	P/P	80 - 120
2343204	Barium	98.9	100	P/P	80 - 120
2343204	Beryllium	90.5	91.8	P/P	80 - 120
2343204	Boron	103	103	P/P	80 - 120
2343204	Cadmium	94.2	94.8	P/P	80 - 120
2343204	Chromium	96.1	97.4	P/P	80 - 120
2343204	Cobalt	97.0	97.2	P/P	80 - 120
2343204	Copper	96.1	97.2	P/P	80 - 120
2343204	Lead	99.2	100	P/P	80 - 120
2343204	Manganese	96.5	97.0	P/P	80 - 120
2343204	Molybdenum	96.8	98.4	P/P	80 - 120
2343204	Nickel	97.7	98.8	P/P	80 - 120
2343204	Selenium	93.9	96.6	P/P	80 - 120
2343204	Silver	99.5	103	P/P	80 - 120
2343204	Thallium	99.4	101	P/P	80 - 120
2343291	Aluminum	100		P	80 - 120
2343291	Antimony	95.6		P	80 - 120
2343291	Arsenic	96.5		P	80 - 120
2343291	Barium	99.3		P	80 - 120
2343291	Beryllium	91.4		P	80 - 120
2343291	Boron	105		P	80 - 120
2343291	Cadmium	94.7		P	80 - 120
2343291	Chromium	94.6		P	80 - 120
2343291	Cobalt	96.6		P	80 - 120
2343291	Copper	97.4		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P417017

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343291	Lead	99.0		P	80 - 120
2343291	Manganese	96.1		P	80 - 120
2343291	Molybdenum	95.1		P	80 - 120
2343291	Nickel	96.5		P	80 - 120
2343291	Selenium	93.4		P	80 - 120
2343291	Silver	99.8		P	80 - 120
2343291	Thallium	96.9		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P417383

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343105	Chloride	94.3		P	90 - 110
2343245	Chloride	94.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P417386

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343105	Sulfate	91.4		P	90 - 110
2343245	Sulfate	94.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P417262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343258	Ammonia-N	96.0	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P417305

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343255	NO2NO3-N	98.0	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417140

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342125	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P417002

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343317	O-Phosphate-P	97.9	97.9	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P417056

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343193	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	88.6	73.3	P/P	50 - 150
2343193	Avobenzon	93.2	80.0	P/P	59 - 206

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P417056

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343193	Octinoxate	141	76.8	P/P	25 - 150
2343193	Oxybenzone	101	95.2	P/P	59 - 147
2343193	PBDE-47	76.2	64.4	P/P	50 - 150
2343193	PBDE-99	71.4	57.9	P/P	50 - 150
2343193	Tri-o-cresyl Phosphate	77.1	67.1	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P417604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345169	Acetochlor	111	101	P/P	65 - 124
2345169	Alachlor	99.2	90.5	P/P	61 - 121
2345169	Ametryn	115	103	P/P	52 - 216
2345169	Atrazine Desethyl	70.2	67.2	P/P	15 - 160
2345169	Azinphos Methyl	114	101	P/P	40 - 292
2345169	Azoxystrobin	144	129	P/P	12 - 242
2345169	Bromacil	81.3	72.2	P/P	54 - 167
2345169	Butylate	50.3	52.5	P/P	14 - 94.0
2345169	Caffeine	92.7	87.4	P/P	10 - 226
2345169	Carbophenothion	72.0	70.1	P/P	49 - 122
2345169	Carfentrazone Ethyl	105	90.8	P/P	53 - 138
2345169	Chlorfenapyr	74.1	60.5	P/P	50 - 150
2345169	Chlorpyrifos Ethyl	93.6	83.4	P/P	52 - 122
2345169	Chlorpyrifos Methyl	99.0	94.6	P/P	66 - 117
2345169	Coumaphos	68.8	60.6	P/P	50 - 220
2345169	Cyanazine	116	106	P/P	43 - 245
2345169	Cyprodinil	108	94.4	P/P	50 - 150
2345169	Demeton	123	115	P/P	43 - 188
2345169	Diazinon	104	102	P/P	69 - 131
2345169	Difenoconazole	158	151	P/P	34 - 231
2345169	Dimethenamid	84.5	77.9	P/P	55 - 118
2345169	Dimethomorph	126	113	P/P	50 - 150
2345169	Disulfoton	109	96.8	P/P	38 - 141
2345169	Dithiopyr	104	94.3	P/P	42 - 116
2345169	EPTC	54.3	55.5	P/P	18 - 85.0
2345169	Ethion	44.9	45.9	P/P	10 - 131
2345169	Ethoprop	113	107	P/P	65 - 129
2345169	Etridiazole	66.0	62.2	P/P	50 - 150
2345169	Fenamiphos	72.1	81.1	P/P	31 - 137
2345169	Fenbuconazole	92.2	83.8	P/P	57 - 160
2345169	Fipronil	100	92.0	P/P	62 - 132
2345169	Fipronil Desulfinyl	111	99.1	P/P	57 - 131
2345169	Fipronil Sulfide	95.1	91.6	P/P	15 - 138
2345169	Fipronil Sulfone	79.2	69.3	P/P	21 - 134
2345169	Fluazifop-P-butyl	104	90.7	P/P	54 - 133
2345169	Fludioxonil	92.2	77.7	P/P	58 - 127
2345169	Flumioxazin	114	106	P/P	33 - 300
2345169	Flutolanil	107	94.6	P/P	42 - 130
2345169	Fluxapyroxad	80.2	76.4	P/P	23 - 141
2345169	Fonofos	102	96.6	P/P	58 - 119
2345169	Hexazinone	106	96.3	P/P	68 - 172
2345169	Imazalil	87.5	91.4	P/P	48 - 283

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P417604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345169	Iprodione	85.5	78.9	P/P	38 - 140
2345169	Loratadine	160	143	F/P	50 - 150
2345169	Malathion	119	108	P/P	40 - 137
2345169	Metalaxyl	99.6	91.3	P/P	21 - 129
2345169	Metolachlor	102	98.4	P/P	55 - 122
2345169	Metribuzin	113	104	P/P	38 - 187
2345169	Mevinphos	95.6	91.1	P/P	54 - 134
2345169	Molinate	69.1	68.0	P/P	41 - 97.0
2345169	Myclobutanil	106	89.6	P/P	56 - 125
2345169	Naled	74.1	78.8	P/P	10 - 108
2345169	Napropamide	70.8	68.6	P/P	50 - 150
2345169	Norflurazon	87.3	85.4	P/P	32 - 122
2345169	Oxadiazon	85.4	82.4	P/P	40 - 119
2345169	Oxyfluorfen	101	99.7	P/P	61 - 153
2345169	Parathion Ethyl	101	98.4	P/P	59 - 130
2345169	Parathion Methyl	138	127	P/P	65 - 155
2345169	Pendimethalin	104	99.4	P/P	49 - 138
2345169	Phenytoin	28.9	28.6	F/F	50 - 200
2345169	Phorate	83.1	84.5	P/P	54 - 161
2345169	Prodiamine	56.6	47.4	P/P	33 - 161
2345169	Prometon	90.9	86.0	P/P	48 - 140
2345169	Prometryn	108	96.2	P/P	55 - 134
2345169	Pronamide	126	116	P/P	66 - 137
2345169	Propanil	102	92.6	P/P	50 - 150
2345169	Propargite	57.0	55.9	P/P	50 - 200
2345169	Propiconazole	92.1	84.4	P/P	36 - 150
2345169	Pyraflufen Ethyl	88.7	78.0	P/P	50 - 150
2345169	Pyridaben	75.3	66.8	P/P	50 - 200
2345169	Pyriproxyfen	66.4	69.4	P/P	10 - 165
2345169	Simazine	104	95.3	P/P	57 - 145
2345169	Stiropfos	50.9	53.4	P/P	50 - 150
2345169	Sulfentrazone	89.3	80.4	P/P	34 - 140
2345169	Tebuconazole	46.1	44.5	P/P	10 - 127
2345169	Terbufos	130	118	P/P	59 - 138
2345169	Terbuthylazine	104	93.8	P/P	68 - 119
2345169	Thiobencarb	93.0	85.8	P/P	50 - 150
2345169	Triadimefon	97.5	90.3	P/P	50 - 150

Reference Method: EPA 8321B
Batch ID: P416993

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343069	Acesulfame K	62.4	64.3	P/P	40 - 150
2343069	AMPA	46.7	44.3	P/P	40 - 150
2343069	Endothall	117	116	P/P	40 - 150
2343069	Glufosinate	32.0	34.3	F/F	40 - 150
2343069	Glyphosate	58.1	59.3	P/P	40 - 150
2343069	Sucralose	90.0	93.6	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P417136

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343511	2,4-D	91.6	73.6	P/P	40 - 150
2343511	2,4,5-T	72.4	69.6	P/P	40 - 150
2343511	Acetaminophen	116	110	P/P	30 - 150
2343511	Acetamiprid	92.9	80.0	P/P	40 - 150
2343511	Afidopyropen	86.2	68.9	P/P	30 - 150
2343511	Benzovindiflupyr	104	91.8	P/P	40 - 150
2343511	Carbamazepine	114	104	P/P	40 - 150
2343511	Clothianidin	105	104	P/P	40 - 150
2343511	Dinotefuran	140	133	P/P	40 - 150
2343511	Diuron	76.4	75.8	P/P	40 - 150
2343511	Fenuron	95.6	87.7	P/P	40 - 150
2343511	Hydrocodone	103	100	P/P	40 - 150
2343511	Ibuprofen	90.5	82.2	P/P	40 - 150
2343511	Imazapyr	76.7	66.5	P/P	40 - 150
2343511	Linuron	96.1	92.2	P/P	40 - 150
2343511	Mandestrobin	83.6	74.7	P/P	40 - 150
2343511	MCCP	92.7	81.5	P/P	40 - 150
2343511	Naproxen	88.4	92.5	P/P	40 - 150
2343511	Primidone	102	99.6	P/P	40 - 150
2343511	Pyraclostrobin	91.9	84.3	P/P	40 - 150
2343511	Silvex	88.9	71.9	P/P	40 - 150
2343511	Thiamethoxam	152	143	F/P	40 - 150
2343511	Tolfenpyrad	52.3	46.9	P/P	30 - 150
2343511	Triclopyr	74.6	68.2	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P417356

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342914	Fluoride	103	103	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P417223

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343200	Organic Carbon	95.6	96.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P417014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343251	Color (true)	1.53	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417011

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343033	Turbidity	13.4	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343204	Calcium	3.63	Spike	P	0 - 20
2343204	Iron	2.28	Spike	P	0 - 20
2343204	Magnesium	2.89	Spike	P	0 - 20
2343204	Potassium	1.97	Spike	P	0 - 20
2343204	Sodium	2.13	Spike	P	0 - 20
2343204	Strontium	2.30	Spike	P	0 - 20
2343204	Tin	3.16	Spike	P	0 - 20
2343204	Titanium	2.83	Spike	P	0 - 20
2343204	Vanadium	3.71	Spike	P	0 - 20
2343204	Zinc	3.71	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343204	Aluminum	2.19	Spike	P	0 - 20
2343204	Antimony	1.92	Spike	P	0 - 20
2343204	Arsenic	2.26	Spike	P	0 - 20
2343204	Barium	1.16	Spike	P	0 - 20
2343204	Beryllium	1.41	Spike	P	0 - 20
2343204	Boron	0.128	Spike	P	0 - 20
2343204	Cadmium	0.599	Spike	P	0 - 20
2343204	Chromium	1.26	Spike	P	0 - 20
2343204	Cobalt	0.201	Spike	P	0 - 20
2343204	Copper	1.13	Spike	P	0 - 20
2343204	Lead	1.15	Spike	P	0 - 20
2343204	Manganese	0.376	Spike	P	0 - 20
2343204	Molybdenum	1.63	Spike	P	0 - 20
2343204	Nickel	1.12	Spike	P	0 - 20
2343204	Selenium	2.73	Spike	P	0 - 20
2343204	Silver	3.26	Spike	P	0 - 20
2343204	Thallium	1.59	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417383

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343105	Chloride	0.347	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417386

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343105	Sulfate	0.503	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343258	Ammonia-N	2.34	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417236

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343114	Kjeldahl Nitrogen	3.50	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417305

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343255	NO2NO3-N	0.725	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417140

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342125	Total-P	0.971	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P417002

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343317	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P417056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343193	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	18.8	Spike	P	0 - 30
2343193	Avobenzonone	15.3	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P417056

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343193	Octinoxate	58.8	Spike	F	0 - 30
2343193	Oxybenzone	6.06	Spike	P	0 - 30
2343193	PBDE-47	16.7	Spike	P	0 - 30
2343193	PBDE-99	20.9	Spike	P	0 - 30
2343193	Tri-o-cresyl Phosphate	13.9	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P417604

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345169	Acetochlor	9.24	Spike	P	0 - 27
2345169	Alachlor	9.17	Spike	P	0 - 27
2345169	Ametryn	10.5	Spike	P	0 - 34
2345169	Atrazine	5.61	Spike	P	0 - 41
2345169	Atrazine Desethyl	3.43	Spike	P	0 - 38
2345169	Azinphos Methyl	12.0	Spike	P	0 - 62
2345169	Azoxystrobin	9.49	Spike	P	0 - 32
2345169	Bromacil	11.9	Spike	P	0 - 30
2345169	Butylate	4.32	Spike	P	0 - 59
2345169	Caffeine	5.87	Spike	P	0 - 60
2345169	Carbophenothion	2.69	Spike	P	0 - 25
2345169	Carfentrazone Ethyl	14.2	Spike	P	0 - 26
2345169	Chlorfenapyr	20.2	Spike	P	0 - 30
2345169	Chlorpyrifos Ethyl	11.5	Spike	P	0 - 27
2345169	Chlorpyrifos Methyl	4.49	Spike	P	0 - 26
2345169	Coumaphos	12.8	Spike	P	0 - 30
2345169	Cyanazine	9.05	Spike	P	0 - 58
2345169	Cyprodinil	13.5	Spike	P	0 - 30
2345169	Demeton	6.18	Spike	P	0 - 25
2345169	Diazinon	2.05	Spike	P	0 - 29
2345169	Difenoconazole	4.64	Spike	P	0 - 25
2345169	Dimethenamid	8.08	Spike	P	0 - 30
2345169	Dimethomorph	11.5	Spike	P	0 - 30
2345169	Disulfoton	11.5	Spike	P	0 - 33
2345169	Dithiopyr	10.1	Spike	P	0 - 22
2345169	EPTC	2.15	Spike	P	0 - 38
2345169	Ethion	2.16	Spike	P	0 - 79
2345169	Ethoprop	6.21	Spike	P	0 - 23
2345169	Etridiazole	5.79	Spike	P	0 - 30
2345169	Fenamiphos	11.7	Spike	P	0 - 58
2345169	Fenbuconazole	9.49	Spike	P	0 - 37
2345169	Fipronil	8.47	Spike	P	0 - 33
2345169	Fipronil Desulfinyl	10.1	Spike	P	0 - 26
2345169	Fipronil Sulfide	3.74	Spike	P	0 - 37
2345169	Fipronil Sulfone	11.7	Spike	P	0 - 50
2345169	Fluazifop-P-butyl	13.9	Spike	P	0 - 24
2345169	Fludioxonil	17.0	Spike	P	0 - 26
2345169	Flumioxazin	6.72	Spike	P	0 - 37
2345169	Flutolanil	12.5	Spike	P	0 - 26
2345169	Fluxapyroxad	4.86	Spike	P	0 - 34

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P417604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345169	Fonofos	5.14	Spike	P	0 - 27
2345169	Hexazinone	9.39	Spike	P	0 - 36
2345169	Imazalil	4.31	Spike	P	0 - 65
2345169	Iprodione	8.09	Spike	P	0 - 33
2345169	Loratadine	11.1	Spike	P	0 - 30
2345169	Malathion	9.73	Spike	P	0 - 44
2345169	Metalaxyl	8.74	Spike	P	0 - 38
2345169	Metolachlor	3.92	Spike	P	0 - 36
2345169	Metribuzin	8.07	Spike	P	0 - 63
2345169	Mevinphos	4.84	Spike	P	0 - 26
2345169	Molinate	1.47	Spike	P	0 - 40
2345169	Myclobutanil	16.7	Spike	P	0 - 21
2345169	Naled	6.08	Spike	P	0 - 26
2345169	Napropamide	3.12	Spike	P	0 - 30
2345169	Norflurazon	2.17	Spike	P	0 - 24
2345169	Oxadiazon	2.86	Spike	P	0 - 27
2345169	Oxyfluorfen	1.44	Spike	P	0 - 24
2345169	Parathion Ethyl	2.56	Spike	P	0 - 28
2345169	Parathion Methyl	8.03	Spike	P	0 - 27
2345169	Pendimethalin	4.91	Spike	P	0 - 31
2345169	Phenytoin	0.778	Spike	P	0 - 30
2345169	Phorate	1.75	Spike	P	0 - 27
2345169	Prodiamine	17.7	Spike	P	0 - 52
2345169	Prometon	5.51	Spike	P	0 - 31
2345169	Prometryn	11.6	Spike	P	0 - 28
2345169	Pronamide	8.67	Spike	P	0 - 26
2345169	Propanil	9.92	Spike	P	0 - 30
2345169	Propargite	1.96	Spike	P	0 - 30
2345169	Propiconazole	8.77	Spike	P	0 - 31
2345169	Pyraflufen Ethyl	12.8	Spike	P	0 - 30
2345169	Pyridaben	7.74	Spike	P	0 - 30
2345169	Pyriproxyfen	4.40	Spike	P	0 - 50
2345169	Simazine	8.71	Spike	P	0 - 29
2345169	Stirophos	4.76	Spike	P	0 - 30
2345169	Sulfentrazone	10.4	Spike	P	0 - 33
2345169	Tebuconazole	3.44	Spike	P	0 - 44
2345169	Terbufos	9.41	Spike	P	0 - 29
2345169	Terbuthylazine	10.5	Spike	P	0 - 27
2345169	Thiobencarb	8.05	Spike	P	0 - 30
2345169	Triadimefon	7.62	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P416993

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343069	Acesulfame K	3.01	Spike	P	0 - 30
2343069	AMPA	4.15	Spike	P	0 - 30
2343069	Endothall	0.729	Spike	P	0 - 30
2343069	Glufosinate	7.13	Spike	P	0 - 30
2343069	Glyphosate	1.39	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P416993

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343069	Sucralose	3.88	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P417136

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343511	2,4-D	19.3	Spike	P	0 - 30
2343511	2,4,5-T	3.93	Spike	P	0 - 30
2343511	Acetaminophen	5.31	Spike	P	0 - 30
2343511	Acetamiprid	14.9	Spike	P	0 - 30
2343511	Afidopyropen	22.3	Spike	P	0 - 30
2343511	Benzovindiflupyr	12.6	Spike	P	0 - 30
2343511	Carbamazepine	8.61	Spike	P	0 - 30
2343511	Clothianidin	0.450	Spike	P	0 - 30
2343511	Dinotefuran	4.79	Spike	P	0 - 30
2343511	Diuron	0.750	Spike	P	0 - 30
2343511	Fenuron	8.61	Spike	P	0 - 30
2343511	Fluridone	9.70	Spike	P	0 - 30
2343511	Hydrocodone	3.29	Spike	P	0 - 30
2343511	Ibuprofen	9.67	Spike	P	0 - 30
2343511	Imazapyr	10.4	Spike	P	0 - 30
2343511	Imidacloprid	8.97	Spike	P	0 - 30
2343511	Linuron	4.19	Spike	P	0 - 30
2343511	Mandestrobin	11.2	Spike	P	0 - 30
2343511	MCPP	12.9	Spike	P	0 - 30
2343511	Naproxen	4.48	Spike	P	0 - 30
2343511	Primidone	2.33	Spike	P	0 - 30
2343511	Pyraclostrobin	8.59	Spike	P	0 - 30
2343511	Silvex	21.1	Spike	P	0 - 30
2343511	Thiamethoxam	6.23	Spike	P	0 - 30
2343511	Tolfenpyrad	10.9	Spike	P	0 - 30
2343511	Triclopyr	8.97	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P417354

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342914	Total Alkalinity	0.352	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P417490

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343095	TDS	5.98	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P417356

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342914	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P417223

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343200	Organic Carbon	0.551	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2343203
Field Sample ID: G1CE0069

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	85.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	116	P	30 - 160
EPA 8321B	Carbamazepine-d10	106	P	30 - 160
EPA 8321B	Diuron-d6	83.4	P	30 - 160
EPA 8321B	Endothall-d6	143	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	91.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	85.0	P	30 - 160
EPA 8321B	Primidone-d5	116	P	30 - 160
EPA 8321B	Sucralose-d6	96.3	P	30 - 160

Lab Sample ID: 2343205
Field Sample ID: G1CE0069

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	53.7	P	20 - 200
EPA 8270E	Caffeine-d9	23.6	P	20 - 200
EPA 8270E	Simazine-d10	87.2	P	71 - 140
EPA 8270E	Simazine-d10	45.7	F	71 - 140
EPA 8270E	Terbufos-d10	72.3	P	62 - 131
EPA 8270E	Terbufos-d10	88.0	P	62 - 131
EPA 8270E	Terphenyl-d14	69.0	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A113644

Included Lab Sample IDs: 2343201

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113649

Included Lab Sample IDs: 2343199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A113654

Included Lab Sample IDs: 2343199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113697

Included Lab Sample IDs: 2343204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.8	97.5	P/P	90 - 110
Antimony	95.5	94.6	P/P	90 - 110
Arsenic	98.9	96.9	P/P	90 - 110
Barium	97.4	95.7	P/P	90 - 110
Beryllium	95.7	92.3	P/P	90 - 110
Boron	99.8	98.7	P/P	90 - 110
Cadmium	97.6	96.8	P/P	90 - 110
Chromium	97.4	95.9	P/P	90 - 110
Cobalt	100	97.6	P/P	90 - 110
Copper	101	97.3	P/P	90 - 110
Lead	98.8	97.8	P/P	90 - 110
Manganese	98.3	96.9	P/P	90 - 110
Molybdenum	96.9	96.6	P/P	90 - 110
Nickel	101	97.0	P/P	90 - 110
Selenium	96.7	96.6	P/P	90 - 110
Silver	102	102	P/P	90 - 110
Thallium	96.8	97.3	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A113721

Included Lab Sample IDs: 2343199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.8	101	P/P	90 - 110
Sulfate	98.5	99.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A113725

Included Lab Sample IDs: 2343200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	96.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113733

Included Lab Sample IDs: 2343203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.9	107	P/P	50 - 150
2,4,5-T	92.1	116	P/P	50 - 150
Acetaminophen	104	103	P/P	60 - 160
Acetamiprid	101	90.3	P/P	50 - 150
Afidopyropen	111	88.0	P/P	50 - 150
Bentazon	108	98.6	P/P	50 - 160
Benzovindiflupyr	99.2	102	P/P	50 - 150
Carbamazepine	105	106	P/P	60 - 150
Clothianidin	94.2	106	P/P	60 - 150
Dinotefuran	107	105	P/P	50 - 150
Diuron	84.4	102	P/P	60 - 160
Fenuron	102	99.1	P/P	60 - 150
Fluridone	112	116	P/P	60 - 160
Hydrocodone	103	102	P/P	60 - 150
Ibuprofen	102	120	P/P	50 - 160
Imazapyr	90.8	81.5	P/P	50 - 150
Imidacloprid	107	105	P/P	60 - 150
Linuron	95.2	108	P/P	60 - 150
Mandestrobin	103	108	P/P	50 - 150
MCPP	105	102	P/P	50 - 150
Naproxen	120	94.5	P/P	50 - 160
Primidone	95.2	105	P/P	60 - 150
Pyraclostrobin	102	101	P/P	60 - 150
Silvex	91.0	86.8	P/P	50 - 150
Thiamethoxam	102	101	P/P	50 - 150
Tolfenpyrad	98.8	98.5	P/P	60 - 150
Triclopyr	116	101	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113739

Included Lab Sample IDs: 2343200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113754

Included Lab Sample IDs: 2343203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	77.7	77.4	P/P	60 - 160
Sucralose	98.0	97.1	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A113755
Included Lab Sample IDs: 2343203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	115	114	P/P	60 - 160
Endothall	96.0	84.9	P/P	60 - 160
Glufosinate	103	92.1	P/P	60 - 160
Glyphosate	112	105	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A113761
Included Lab Sample IDs: 2343200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A113771
Included Lab Sample IDs: 2343200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	101	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A113778
Included Lab Sample IDs: 2343199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.4	97.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A113778
Included Lab Sample IDs: 2343199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	107	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A113782
Included Lab Sample IDs: 2343200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.2	98.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A113834
Included Lab Sample IDs: 2343204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	101	P/P	90 - 110
Iron	100	100	P/P	90 - 110
Magnesium	100	99.7	P/P	90 - 110
Potassium	101	100	P/P	90 - 110
Sodium	100	101	P/P	90 - 110
Strontium	102	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A113834

Included Lab Sample IDs: 2343204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tin	97.0	97.9	P/P	90 - 110
Titanium	97.5	97.4	P/P	90 - 110
Vanadium	97.9	98.8	P/P	90 - 110
Zinc	97.4	97.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113926

Included Lab Sample IDs: 2343205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	86.9		P	80 - 120
Avobenzene	90.8		P	80 - 120
Octinoxate	99.2		P	80 - 120
Oxybenzone	100		P	80 - 120
PBDE-47	90.6		P	80 - 120
PBDE-99	85.4		P	80 - 120
Tri-o-cresyl Phosphate	93.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113993

Included Lab Sample IDs: 2343205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.3		P	80 - 120
Alachlor	96.7		P	80 - 120
Ametryn	95.7		P	80 - 120
Atrazine Desethyl	95.1		P	80 - 120
Azinphos Methyl	108		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	90.0		P	80 - 120
Butylate	98.3		P	80 - 120
Caffeine	109		P	80 - 120
Carbophenothion	110		P	80 - 120
Carfentrazone Ethyl	95.6		P	80 - 120
Chlorfenapyr	107		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	111		P	80 - 120
Coumaphos	108		P	80 - 120
Cyanazine	92.8		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	114		P	80 - 120
Diazinon	98.9		P	80 - 120
Difenoconazole	104		P	80 - 120
Dimethenamid	95.8		P	80 - 120
Dimethomorph	85.9		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	99.2		P	80 - 120
EPTC	98.9		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	98.3		P	80 - 120
Etridiazole	96.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113993
Included Lab Sample IDs: 2343205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	95.7		P	80 - 120
Fipronil	93.1		P	80 - 120
Fipronil Desulfinyl	93.6		P	80 - 120
Fipronil Sulfide	96.2		P	80 - 120
Fipronil Sulfone	94.2		P	80 - 120
Fluazifop-P-butyl	99.5		P	80 - 120
Fludioxonil	91.5		P	80 - 120
Flumioxazin	91.3		P	80 - 120
Flutolanil	98.3		P	80 - 120
Fluxapyroxad	92.5		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	100		P	80 - 120
Iprodione	90.4		P	80 - 120
Loratadine	107		P	80 - 120
Malathion	95.7		P	80 - 120
Metalaxyl	95.5		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	89.6		P	80 - 120
Mevinphos	90.3		P	80 - 120
Molinate	95.1		P	80 - 120
Myclobutanil	94.7		P	80 - 120
Naled	110		P	80 - 120
Napropamide	96.5		P	80 - 120
Norflurazon	93.7		P	80 - 120
Oxadiazon	100		P	80 - 120
Oxyfluorfen	105		P	80 - 120
Parathion Ethyl	97.0		P	80 - 120
Parathion Methyl	104		P	80 - 120
Pendimethalin	101		P	80 - 120
Phenytoin	98.0		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	97.2		P	80 - 120
Prometryn	95.4		P	80 - 120
Pronamide	93.6		P	80 - 120
Propanil	92.9		P	80 - 120
Propargite	97.7		P	80 - 120
Propiconazole	94.0		P	80 - 120
Pyraflufen Ethyl	99.1		P	80 - 120
Pyridaben	96.9		P	80 - 120
Pyriproxyfen	97.2		P	80 - 120
Simazine	91.1		P	80 - 120
Stirophos	111		P	80 - 120
Sulfentrazone	92.6		P	80 - 120
Tebuconazole	95.6		P	80 - 120
Terbufos	107		P	80 - 120
Terbuthylazine	98.8		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	100		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
Run ID: A113999
Included Lab Sample IDs: 2343205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.2		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	99.2				1.53	
EPA 180.1 Rev. 2.0	Turbidity	96.4				13.4	
EPA 200.7 Rev. 4.4	Calcium	103	103	108			3.63
	Iron	103	104	102	110		2.28
	Magnesium	102	104	99.9	108		2.89
	Potassium	102	104	102	105		1.97
	Sodium	102	102	108			2.13
	Strontium	106	108	106	110		2.30
	Tin	102	103	100	106		3.16
	Titanium	102	104	101	107		2.83
	Vanadium	101	104	100	107		3.71
	Zinc	99.5	104	99.6	106		3.71
EPA 200.8 Rev. 5.4	Aluminum	98.8	97.2	99.6	100		2.19
	Antimony	95.9	95.4	97.3	95.6		1.92
	Arsenic	96.3	95.5	97.7	96.5		2.26
	Barium	99.2	98.9	100	99.3		1.16
	Beryllium	91.5	90.5	91.8	91.4		1.41
	Boron	104	103	103	105		0.128
	Cadmium	94.8	94.2	94.8	94.7		0.599
	Chromium	94.7	96.1	97.4	94.6		1.26
	Cobalt	97.3	97.0	97.2	96.6		0.201
	Copper	96.3	96.1	97.2	97.4		1.13
	Lead	98.8	99.2	100	99.0		1.15
	Manganese	95.2	96.5	97.0	96.1		0.376
	Molybdenum	94.8	96.8	98.4	95.1		1.63
	Nickel	97.5	97.7	98.8	96.5		1.12
	Selenium	94.1	93.9	96.6	93.4		2.73
	Silver	100	99.5	103	99.8		3.26
	Thallium	97.7	99.4	101	96.9		1.59
EPA 300.0 Rev. 2.1	Chloride	98.7	94.3	94.4		0.347	
	Sulfate	97.7	91.4	94.9		0.503	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	96.0	98.6			2.34
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109					3.50
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	98.0	97.0			0.725
EPA 365.1 Rev. 2.0	Total-P	103	102	103			0.971
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	97.9	97.9			0.0
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.8	88.6	73.3			18.8
	Acetochlor	107	111	101			9.24
	Alachlor	103	99.2	90.5			9.17
	Ametryn	133	115	103			10.5
	Atrazine	110					5.61
	Atrazine Desethyl	87.2	70.2	67.2			3.43
	Avobenzone	90.2	93.2	80.0			15.3
	Azinphos Methyl	103	114	101			12.0
	Azoxystrobin	146	144	129			9.49
	Bromacil	82.1	81.3	72.2			11.9
	Butylate	48.6	50.3	52.5			4.32
	Caffeine	83.7	92.7	87.4			5.87
	Carbophenothion	70.0	72.0	70.1			2.69
	Carfentrazone Ethyl	105	90.8	105			14.2
	Chlorfenapyr	66.8	74.1	60.5			20.2
	Chlorpyrifos Ethyl	113	93.6	83.4			11.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Chlorpyrifos Methyl	89.9	99.0	94.6			4.49
	Coumaphos	45.4	68.8	60.6			12.8
	Cyanazine	92.9	116	106			9.05
	Cyprodinil	126	108	94.4			13.5
	Demeton	115	123	115			6.18
	Diazinon	110	104	102			2.05
	Difenoconazole	118	158	151			4.64
	Dimethenamid	75.9	84.5	77.9			8.08
	Dimethomorph	113	126	113			11.5
	Disulfoton	104	109	96.8			11.5
	Dithiopyr	104	104	94.3			10.1
	EPTC	58.0	54.3	55.5			2.15
	Ethion	19.3	44.9	45.9			2.16
	Ethoprop	112	113	107			6.21
	Etridiazole	69.3	66.0	62.2			5.79
	Fenamiphos	71.8	72.1	81.1			11.7
	Fenbuconazole	78.6	92.2	83.8			9.49
	Fipronil	98.9	100	92.0			8.47
	Fipronil Desulfinyl	102	111	99.1			10.1
	Fipronil Sulfide	93.8	95.1	91.6			3.74
	Fipronil Sulfone	89.7	79.2	69.3			11.7
	Fluazifop-P-butyl	104	104	90.7			13.9
	Fludioxonil	65.1	92.2	77.7			17.0
	Flumioxazin	60.6	114	106			6.72
	Flutolanil	85.4	107	94.6			12.5
	Fluxapyroxad	50.7	80.2	76.4			4.86
	Fonofos	106	102	96.6			5.14
	Hexazinone	87.7	106	96.3			9.39
	Imazalil	70.8	87.5	91.4			4.31
	Iprodione	71.5	85.5	78.9			8.09
	Loratadine	218	160	143			11.1
	Malathion	104	119	108			9.73
	Metalaxyl	102	99.6	91.3			8.74
	Metolachlor	88.0	102	98.4			3.92
	Metribuzin	112	113	104			8.07
	Mevinphos	94.2	95.6	91.1			4.84
	Molinate	67.0	69.1	68.0			1.47
	Myclobutanil	88.1	106	89.6			16.7
	Naled	65.7	74.1	78.8			6.08
	Napropamide	52.4	70.8	68.6			3.12
	Norflurazon	80.7	87.3	85.4			2.17
	Octinoxate	86.8	141	76.8			58.8
	Oxadiazon	90.6	85.4	82.4			2.86
	Oxybenzone	80.2	101	95.2			6.06
	Oxyfluorfen	96.8	101	99.7			1.44
	Parathion Ethyl	104	101	98.4			2.56
	Parathion Methyl	133	138	127			8.03
	PBDE-47	91.4	76.2	64.4			16.7
	PBDE-99	84.5	71.4	57.9			20.9
	Pendimethalin	103	104	99.4			4.91
	Phenytoin	15.2	28.9	28.6			0.778
	Phorate	104	83.1	84.5			1.75
	Prodiamine	50.3	56.6	47.4			17.7
	Prometon	80.9	90.9	86.0			5.51

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Prometryn	112	108	96.2			11.6
	Pronamide	115	126	116			8.67
	Propanil	93.0	102	92.6			9.92
	Propargite	35.4	57.0	55.9			1.96
	Propiconazole	81.8	92.1	84.4			8.77
	Pyraflufen Ethyl	75.1	88.7	78.0			12.8
	Pyridaben	79.8	75.3	66.8			7.74
	Pyriproxyfen	33.6	66.4	69.4			4.40
	Simazine	95.4	104	95.3			8.71
	Stirophos	29.2	50.9	53.4			4.76
	Sulfentrazone	84.1	89.3	80.4			10.4
	Tebuconazole	20.0	46.1	44.5			3.44
	Terbufos	114	130	118			9.41
	Terbuthylazine	107	104	93.8			10.5
	Thiobencarb	81.2	93.0	85.8			8.05
	Tri-o-cresyl Phosphate	86.0	77.1	67.1			13.9
	Triadimefon	82.8	97.5	90.3			7.62
EPA 8321B	2,4-D	86.2	91.6	73.6			19.3
	2,4,5-T	76.7	72.4	69.6			3.93
	Acesulfame K	71.7	62.4	64.3			3.01
	Acetaminophen	90.2	116	110			5.31
	Acetamiprid	73.6	92.9	80.0			14.9
	Afidopyropen	73.4	86.2	68.9			22.3
	AMPA	108	46.7	44.3			4.15
	Bentazon	96.3					
	Benzovindiflupyr	88.8	104	91.8			12.6
	Carbamazepine	89.2	114	104			8.61
	Clothianidin	96.2	105	104			0.450
	Dinotefuran	98.7	140	133			4.79
	Diuron	72.1	76.4	75.8			0.750
	Endothall	92.1	117	116			0.729
	Fenuron	101	95.6	87.7			8.61
	Fluridone	92.3					9.70
	Glufosinate	120	32.0	34.3			7.13
	Glyphosate	102	58.1	59.3			1.39
	Hydrocodone	91.4	103	100			3.29
	Ibuprofen	113	90.5	82.2			9.67
	Imazapyr	74.7	76.7	66.5			10.4
	Imidacloprid	102					8.97
	Linuron	91.1	96.1	92.2			4.19
	Mandestrobin	83.8	83.6	74.7			11.2
	MCPP	97.4	92.7	81.5			12.9
	Naproxen	99.7	88.4	92.5			4.48
	Primidone	90.3	102	99.6			2.33
	Pyraclostrobin	76.2	91.9	84.3			8.59
	Silvex	55.4	88.9	71.9			21.1
	Sucralose	93.7	90.0	93.6			3.88
	Thiamethoxam	95.0	152	143			6.23
	Tolfenpyrad	41.8	52.3	46.9			10.9
	Triclopyr	72.7	74.6	68.2			8.97
SM 2320 B-2011	Total Alkalinity	99.1				0.352	
SM 2540 C-2011	TDS					5.98	
SM 4500-F- C-2011	Fluoride	104	103	103			0.0
SM 5310 B-2011	Organic Carbon	96.6	95.6	96.6			0.551

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2343199
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2343199
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2343204
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2343204
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2343199
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2343199
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2343200
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2343200
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2343200
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2343200
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2343201
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2343205
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2343205
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2343203
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2343199
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2343204
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2343199
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2343199
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2343199
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2343200

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	07/21/2022			07/21/2022 14:40	Blanca Fach	2343199
EPA 180.1 Rev. 2.0	07/21/2022			07/21/2022 14:05	Anna M. Plaviak	2343199
EPA 200.7 Rev. 4.4	07/21/2022	07/22/2022 10:20	Megan Whitefoot	08/01/2022 20:06	McKinley C Carter	2343204
EPA 200.8 Rev. 5.4	07/21/2022	07/22/2022 10:20	Megan Whitefoot	07/25/2022 17:27	Alexander Thompson	2343204
EPA 300.0 Rev. 2.1	07/21/2022			07/28/2022 16:43	Anna M. Plaviak	2343199
EPA 350.1 Rev. 2.0	07/21/2022			07/27/2022 14:19	Judith K. Clark	2343200
EPA 351.2 Rev. 2.0	07/21/2022	07/27/2022 16:00	Simonne.V. Calhoun	07/28/2022 15:32	Samantha L Bates	2343200
EPA 353.2 Rev. 2.0	07/21/2022			07/28/2022 09:40	Beverly Y. Sanders	2343200
EPA 365.1 Rev. 2.0	07/21/2022	07/27/2022 16:58	Adam P Silver	07/28/2022 15:13	James L Waggerby	2343200
EPA 365.1 Rev. 2.0 dissolved	07/21/2022			07/21/2022 13:33	Chandler E Cox	2343201
EPA 8270E	07/21/2022	07/27/2022 08:00	Fe-Val Siddell	08/01/2022 19:27	Lipi Saha	2343205
	07/21/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 05:50	Michael Poppell	2343205
	07/21/2022	08/05/2022 08:00	Fe-Val Siddell	08/10/2022 00:50	Michael Poppell	2343205
EPA 8321B	07/21/2022	07/26/2022 09:00	Umesh Chiluwal	07/26/2022 12:37	Umesh Chiluwal	2343203
	07/21/2022	07/26/2022 09:00	Umesh Chiluwal	07/26/2022 21:51	Umesh Chiluwal	2343203
	07/21/2022	07/26/2022 10:00	June Rhew	07/26/2022 20:23	Juyoung Kim	2343203
SM 2320 B-2011	07/21/2022			07/29/2022 01:43	Dale L. Simmons	2343199
SM 2340 B-2011	07/21/2022			08/01/2022 20:06	McKinley C Carter	2343204
SM 2540 C-2011	07/21/2022			07/26/2022 15:02	Yijie Li	2343199
SM 2540 D-2011	07/21/2022			07/26/2022 15:02	Yijie Li	2343199
SM 4500-F- C-2011	07/21/2022			07/29/2022 01:43	Dale L. Simmons	2343199
SM 5310 B-2011	07/21/2022			07/26/2022 23:48	Khloe J Berg	2343200